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Med. Chem. 37:1385-1401 (1994), each of which is incorporated herein by reference). Where a molecule is a peptide, protein or fragment thereof, the molecule can be produced *in vitro* directly or can be expressed from a nucleic acid, which is produced *in vitro*. Methods of synthetic peptide and nucleic acid chemistry are well known in the art.--

In the claims:

Please cancel claims 4 and 5.

Please amend claims 1 and 6 as follows:

1. (Amended) A method of recovering a molecule that homes to a selected organ or tissue, comprising the steps of:

a. administering to a subject a library of diverse molecules, providing said library of molecules is not a nucleic acid library;

b. collecting a sample of the selected organ or tissue; and

c. recovering from said sample a molecule that homes to said selected organ or tissue by isolating said molecule from said sample.

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6. (Amended) The method of claim 1, wherein said selected organ or tissue is selected from the group consisting of brain and kidney.

Please add the following new claims:

7. (New) The method of claim 1, wherein said selected organ or tissue is a tumor.

8. (New) The method of claim 1, wherein said library of diverse molecules is a library of diverse peptides and peptidomimetics.

9. (New) The method of claim 1, wherein said library of diverse molecules is a library of diverse peptides.

10. (New) A method of identifying a molecule that homes to a selected organ or tissue, comprising the steps of:

a. administering to a subject a library of diverse molecules, providing said library of molecules is not a nucleic acid library;

b. collecting a sample of the selected organ or tissue; and

c. identifying a molecule that homes to said selected organ or tissue.

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11. (New) The method of claim 10, wherein each of said diverse molecules is linked to a tag.

12. (New) The method of claim 11, wherein said tag is a support.

13. (New) The method of claim 10, wherein said library is a phage display library.

14. (New) The method of claim 10, wherein said selected organ or tissue is selected from the group consisting of brain and kidney.

15. (New) The method of claim 10, wherein said selected organ or tissue is a tumor.

16. (New) The method of claim 10, wherein said library of diverse molecules is a library of diverse peptides and peptidomimetics.

17. (New) The method of claim 10, wherein said library of diverse molecules is a library of diverse peptides.--

REMARKS

Claims 1 to 6 are pending. Claims 1 and 6 have been amended, claims 4 and 5 have been canceled, and new claims 7 to